

## ABSTRACT OF THE DISCLOSURE

A connector assembly for connecting and aligning an active optical component with an optical waveguide is provided. The assembly comprises:

- 5 (i) a waveguide chip having an optical waveguide embedded beneath a cladding layer and a cavity for accommodating the active optical component comprising at least one wall extending from the surface of the cladding layer through the waveguide; and
- (ii) a second chip for carrying the active optical component.

The waveguide chip comprises a locating stop and the second chip has first and second  
 10 reference regions formed thereon, the first reference region being adapted to locate the active optical component, and the second reference region being adapted to engage the surface of the cladding layer and the locating stop of the waveguide chip when the waveguide chip and second chip are connected together with the active optical component  
 15 located within the cavity in order to provide alignment of the waveguide with the active optical component.

Fig. 5